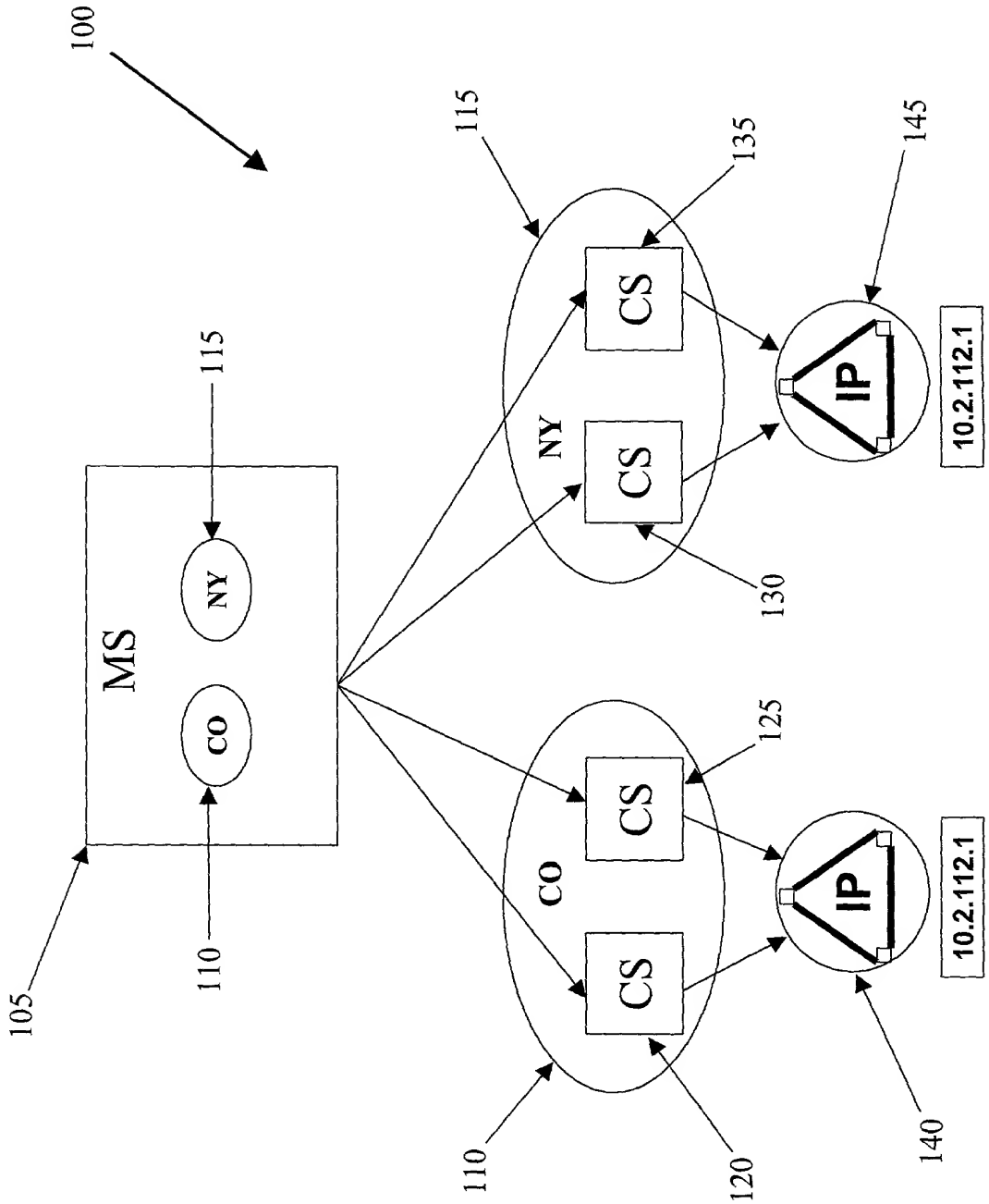

100
105
110
115
MS
NY
CO
115
135
145
NY
CS
CS
IP
10.2.112.1
130
125
CO
CS
CS
IP
10.2.112.1
110
120
140

FIG. 1

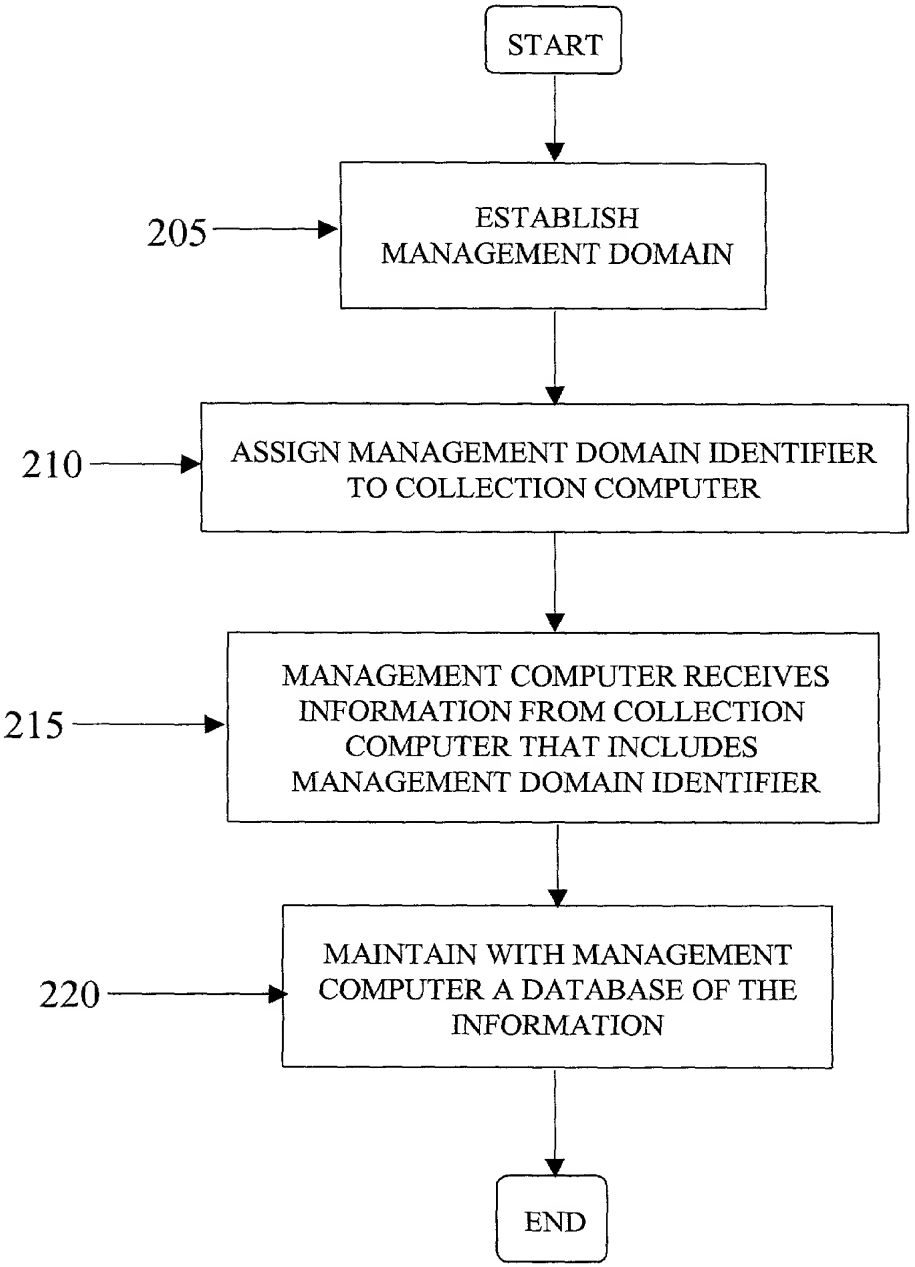

START
205
ESTABLISH MANAGEMENT DOMAIN
210
ASSIGN MANAGEMENT DOMAIN IDENTIFIER TO COLLECTION COMPUTER
215
MANAGEMENT COMPUTER RECEIVES INFORMATION FROM COLLECTION COMPUTER THAT INCLUDES MANAGEMENT DOMAIN IDENTIFIER
220
MAINTAIN WITH MANAGEMENT COMPUTER A DATABASE OF THE INFORMATION
END

FIG. 2

FIG. 3

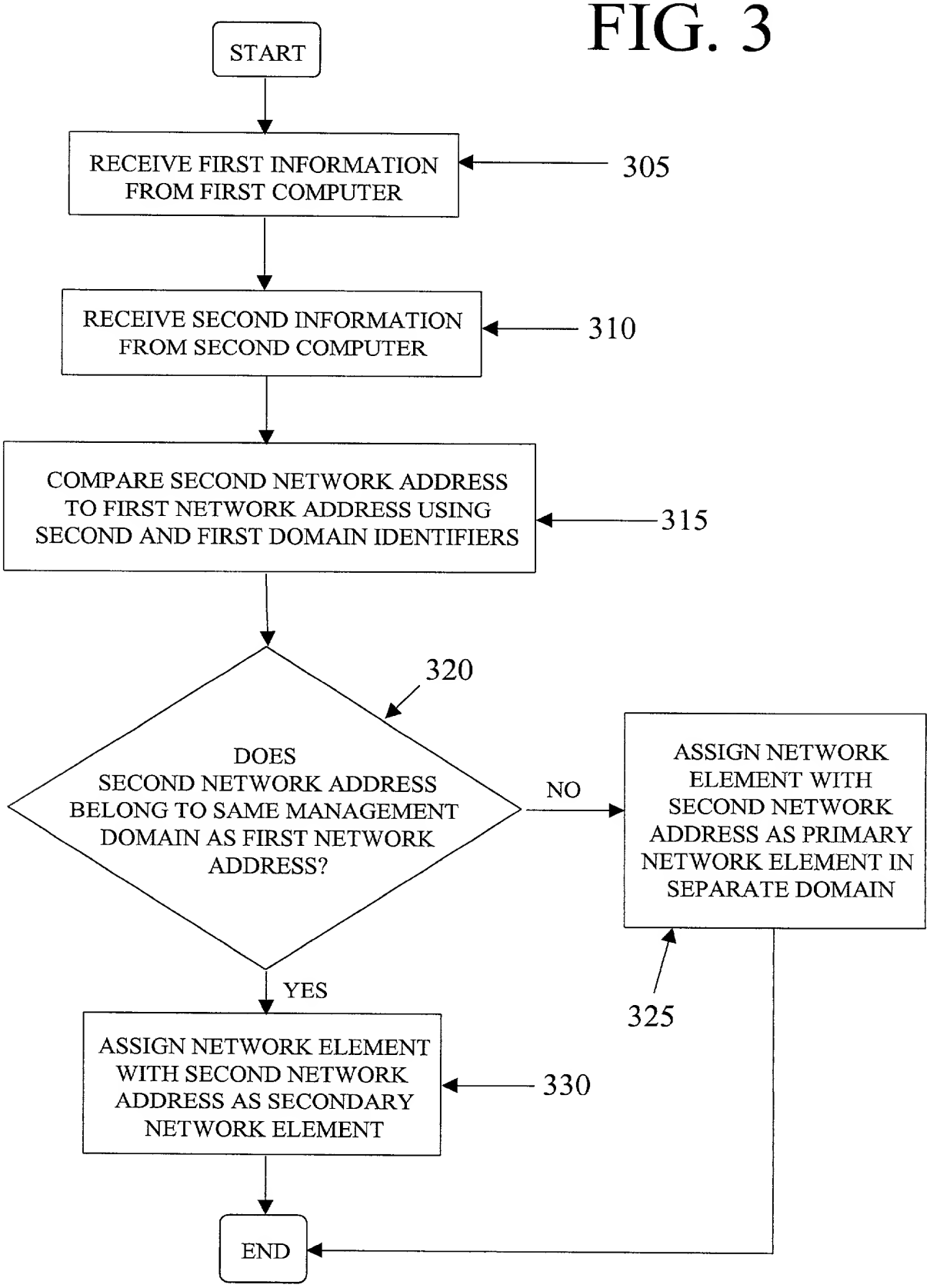
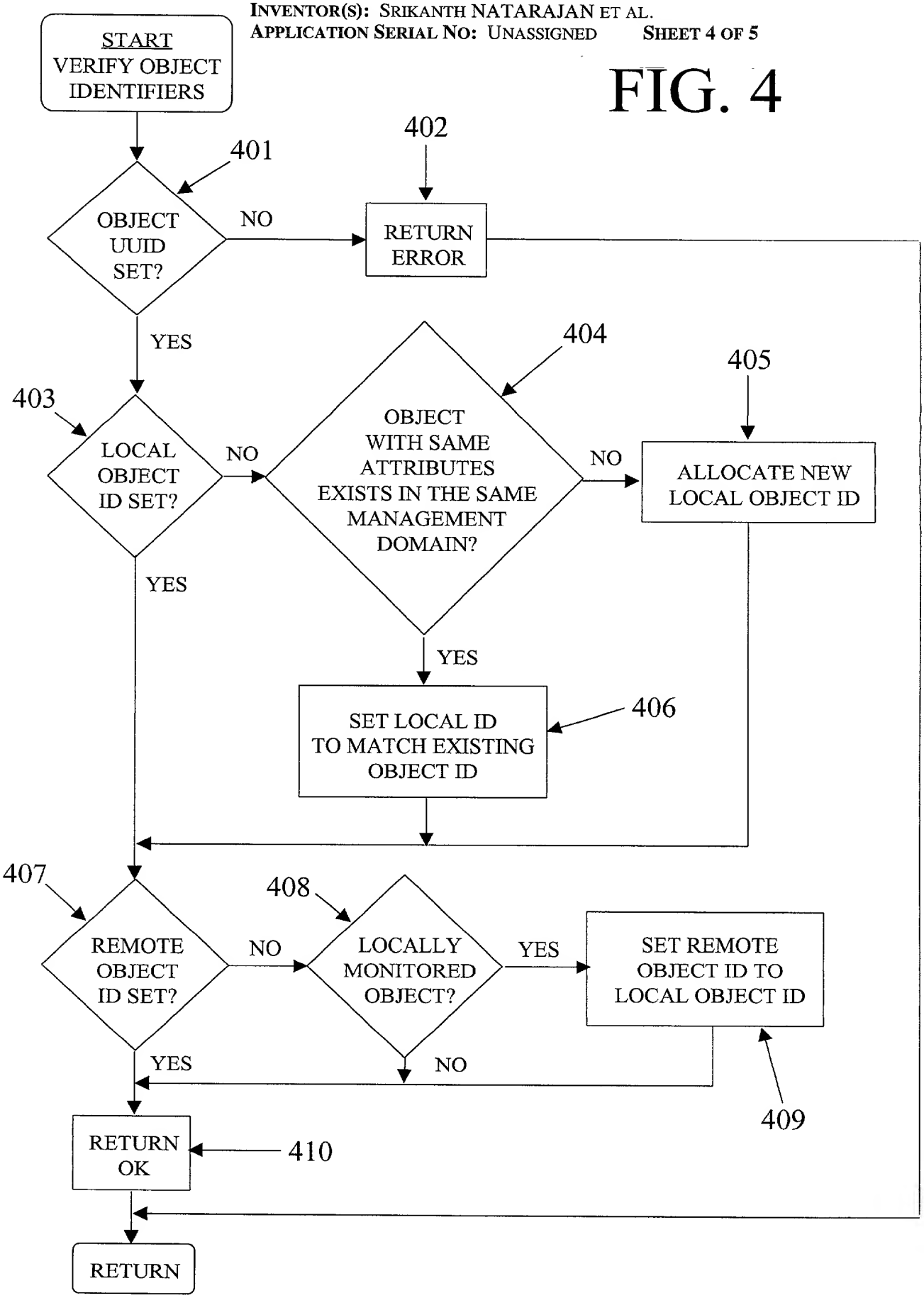

START
RECEIVE FIRST INFORMATION FROM FIRST COMPUTER
305
RECEIVE SECOND INFORMATION FROM SECOND COMPUTER
310
COMPARE SECOND NETWORK ADDRESS TO FIRST NETWORK ADDRESS USING SECOND AND FIRST DOMAIN IDENTIFIERS
315
320
DOES SECOND NETWORK ADDRESS BELONG TO SAME MANAGEMENT DOMAIN AS FIRST NETWORK ADDRESS?
NO
ASSIGN NETWORK ELEMENT WITH SECOND NETWORK ADDRESS AS PRIMARY NETWORK ELEMENT IN SEPARATE DOMAIN
325
YES
ASSIGN NETWORK ELEMENT WITH SECOND NETWORK ADDRESS AS SECONDARY NETWORK ELEMENT
330
END

FIG. 4


START
VERIFY OBJECT IDENTIFIERS
401
OBJECT UUID SET?
NO
402
RETURN ERROR
YES
403
LOCAL OBJECT ID SET?
NO
404
OBJECT WITH SAME ATTRIBUTES EXISTS IN THE SAME MANAGEMENT DOMAIN?
NO
405
ALLOCATE NEW LOCAL OBJECT ID
YES
YES
SET LOCAL ID TO MATCH EXISTING OBJECT ID
406
407
REMOTE OBJECT ID SET?
NO
408
LOCALLY MONITORED OBJECT?
YES
SET REMOTE OBJECT ID TO LOCAL OBJECT ID
409
YES
NO
RETURN OK
410
RETURN

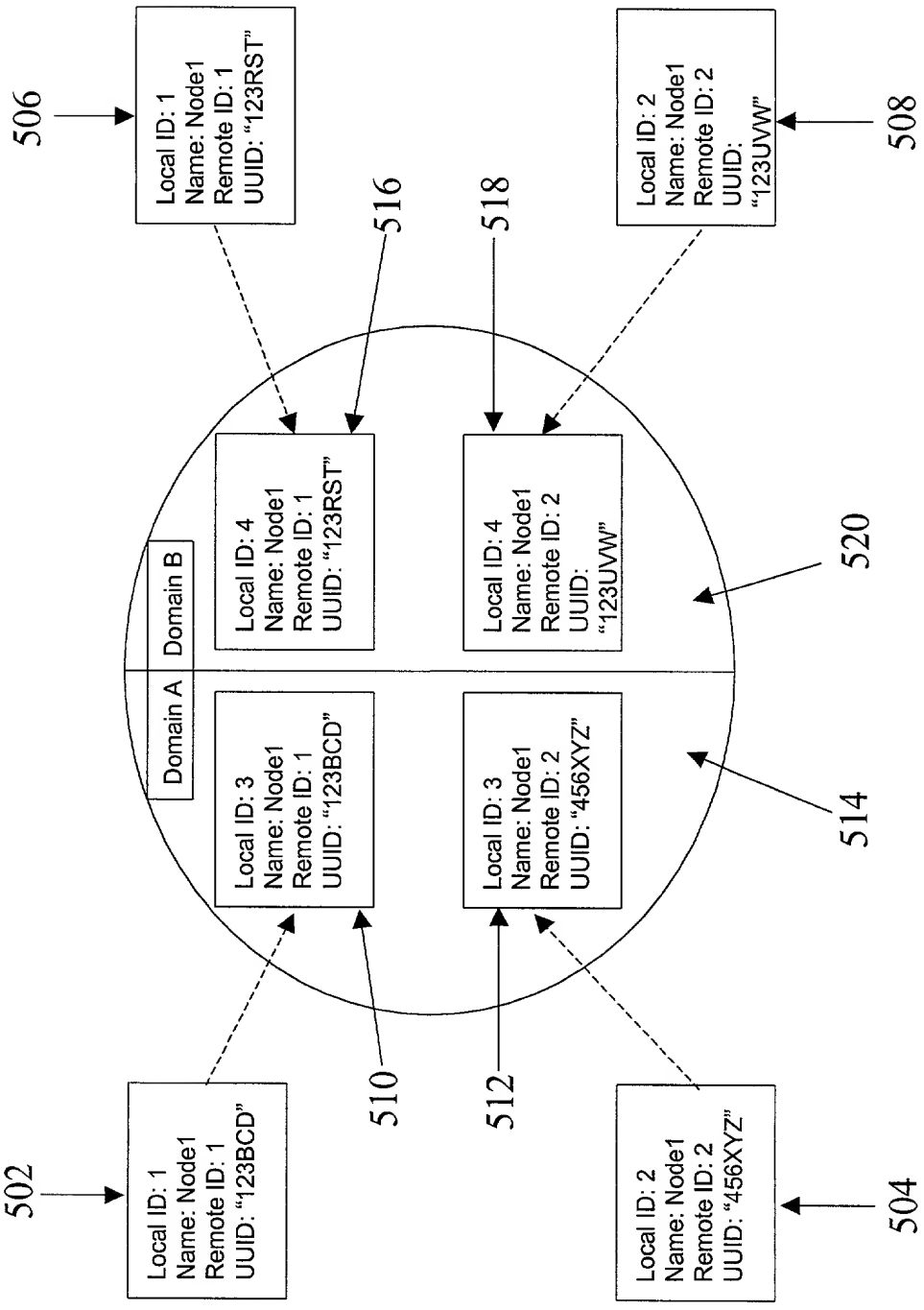

506
Local ID: 1
Name: Node1
Remote ID: 1
UUID: "123RST"
508
Local ID: 2
Name: Node1
Remote ID: 2
UUID: "123UVW"
516
518
Domain B
Domain A
Local ID: 4
Name: Node1
Remote ID: 1
UUID: "123RST"
Local ID: 4
Name: Node1
Remote ID: 2
UUID: "123UVW"
520
Local ID: 3
Name: Node1
Remote ID: 1
UUID: "123BCD"
Local ID: 3
Name: Node1
Remote ID: 2
UUID: "456XYZ"
514
502
Local ID: 1
Name: Node1
Remote ID: 1
UUID: "123BCD"
510
512
Local ID: 2
Name: Node1
Remote ID: 2
UUID: "456XYZ"
504

FIG. 5